

PATENT ABSTRACTS OF JAPAN

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(54) DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a display device with less power consumption and a high quality display even when gate line capacitance is increased.

SOLUTION: Charges stored in the gate line (scanning line) capacity (C_1, C_2, \dots, C_n) are stored temporarily in a charge preserving capacitor CD arranged so that the charges are shared with respective gate lines (D_1, D_2, \dots, D_n), and thereafter, gate line drive is performed successively while using the charges for charging the gate line capacity. That is, a HIGH level signal is applied to the certain gate line D_i to charge the gate line capacity C_i , and after a fixed period, after the charges stored in the gate line D_i are transferred through a charge transferring inductor L to be preserved temporarily in the charge preserving capacitor CD, by transferring them to the next gate line capacitance, the HIGH level signal is applied to the gate line. After the charges are transferred, only the charge by the lost charge much is supplied from the outside, and the HIGH level signal of a prescribed potential is applied to respective gate lines.

